

VI. *Characters of undescribed Species of Smiera* (Chalcidites). By FRANCIS WALKER, F.L.S., F.Z.S.

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SMIERA, of which a few species occur in various parts of the world, is most abundant in South America, and numerous forms of it inhabit the Amazon region, which seems to be especially adapted to the multiplicity of the species of that genus. All the species described in the following communication were discovered by Mr. Bates, and are in the collection of the British Museum.

SYNOPSIS SPECIERUM.

A Femora postica dentibus magnis armata.

A Antennæ filiformes.

* Antennæ apice non pallidiores.

† Abdomen nigrum.

‡ Femora postica dentibus 4 magnis armata. *S. concitata*.

‡‡ Femora postica dentibus 5 magnis armata.

§ Tibiæ anticæ flavæ. *S. certa*.

§§ Tibiæ anticæ nigræ. *S. efficta*.

†† Abdomen flavo- aut luteo-varium.

‡ Femora postica dentibus 3 magnis armata. *S. conlaeta*.

‡‡ Femora postica dentibus 4 magnis armata.

§ Abdomen immaculatum. *S. destinata*.

§§ Abdomen nigro-bimaculatum. *S. erocuta*.

‡‡‡ Femora postica dentibus 5 magnis armata.

§ Antennæ subtus non ochraceæ.

× Abdomen nigro-fasciatum. *S. appressa*.

× × Abdomen maculis lateralibus piceis. *S. aperta*.

× × × Abdomen fasciis piceis. *S. cerina*.

§§ Antennæ subtus ochraceæ. *S. basilica*.

‡‡‡‡ Femora postica dentibus 6 magnis armata.

§ Caput nigrum. *S. composita*.

§§ Caput flavum aut luteum.

× Abdomen vitta nigricante. *S. admixta*.

× × Abdomen fasciis rufescentibus. *S. defuncta*.

‡‡‡‡‡ Femora postica dentibus 7 magnis armata. *S. adaptata*.

- +++++ Femora postica dentibus 8 magnis armata. *S. correcta*.
- +++++ Femora postica dentibus 9 magnis armata. *S. eximians*.
- ** Antennæ apice rufescentes.
- † Abdomen nigrum, basi flavum. *S. scissa*.
- †† Abdomen fasciis interruptis nigris. *S. æmula*.
- ††† Abdomen flavum, immaculatum. *S. adsita*.
- *** Antennæ apice luteæ. *S. attalica*.
- AA Antennæ extrorsum crassiores.
- * Abdomen fusiforme. *S. contermina*.
- ** Abdomen lanceolatum. *S. commoda*.
- AAA Antennæ subclavatæ. *S. alienata*.
- B Femora postica dentibus parvis armata.
- A Antennæ filiformes.
- * Antennæ apice non rufescentes.
- † Abdomen flavum, immaculatum.
- ‡ Abdomen thorace multò brevius. *S. dimota*.
- †† Abdomen thorace paullò brevius. *S. disposita*.
- †† Abdomen flavum, apice nigrum.
- ‡ Alæ venis fulvis. *S. expleta*.
- †† Alæ venis nigris.
- § Tibiæ posticæ luteæ. *S. descripta*.
- §§ Tibiæ posticæ basi apiceque nigræ. *S. exhauriens*.
- ††† Abdomen fasciatum.
- ‡ Corpus nigrum, flavo-varium.
- § Petiolus non brevissimus.
- × Abdomen luteum, nigro-bifasciatum. *S. adjuncta*.
- ×× Abdomen nigrum, fasciis flavis. *S. blanda*.
- §§ Petiolus brevissimus. *S. vacillans*.
- ††† Corpus flavum, nigro-varium.
- § Alæ anticæ apice nigricantes. *S. terminalis*.
- §§ Alæ anticæ apice non nigricantes.
- × Alæ cinereæ.
- Antennæ scapo flavo.
- ++ Petiolus metathorace longior. *S. æqualis*.
- ++++ Petiolus metathorace brevior. *S. contributa*.
- Antennæ scapo subtus flavo. *S. celsa*.
- ×× Alæ limpidæ. *S. detracta*.

** Antennæ apice rufescentes.

† Corpus nigrum, flavo-varium. *S. annulifera*.

†† Corpus flavum aut luteum, nigro-varium.

‡ Abdomen luteum. *S. depicta*.

‡‡ Abdomen notatum.

§ Corpus flavum. *S. annexa*.

§§ Corpus luteum. *S. cognata*.

*** Antennæ ochraceæ. *S. demota*.

AV Antennæ extrorsum crassiores.

* Abdomen basi rufescens. *S. apparata*.

** Abdomen basi non rufescens.

† Alæ cinereæ. *S. deducta*.

†† Alæ limpidæ. *S. attackta*.

To the above species of *Smiera* I have added a single new species of the genus *Chalcis*, *C. eurytomoides*.

1. *Smiera concitata*.

Fœm.—Nigra; antennæ scapo subtus flavo; prothorax luteo-bistrigatus; parapsides et scutellum luteo-notata; pedes postici coxis flavo-vittatis, femoribus flavis apice nigris; tarsi intermedii flavi, apice picei; alæ obscurè cinereæ.

Female.—Black. Antennæ filiform; scape yellow beneath. Prothorax with a luteous transverse streak on each side. Parapsides of the mesothorax with a luteous streak on the outer side; scutellum with a small luteous dot on each side, and with a prominent rim which is slightly bidentate. Petiole nearly as long as the metathorax. Abdomen slightly lanceolate, shorter and much narrower than the thorax. Hind-coxæ beneath with a broad yellow stripe, which does not extend to the tips; hind-femora yellow, black towards the tips, armed with four large and two very small black teeth; anterior knees and middle tarsi yellow, the latter piceous towards the tips; fore-tarsi piceous. Wings dark cinereous; veins piceous; ulna a little less than half the length of the humerus; radius as long as the ulna; cubitus short.

Length of the body 5 lines; of the wings 9 lines.

2. *Smiera certa*.

Mas.—Nigra; antennæ subtus rufescentes, scapo subtus flavo; prothorax flavo-bistrigatus; mesothoracis segmenta flavo-strigata; tibiæ posticæ luteo-strigatæ; tarsi lutei; alæ obscurè cinereæ.

Malc.—Black. Antennæ filiform, reddish beneath; scape with

a yellow stripe beneath. Prothorax with a small transverse yellow streak on each side. A small yellow streak on each of the parapsides and paraptera of the mesothorax; scutellum with an interrupted transverse yellow line on its fore-border, forming on its hind-border a slightly excavated rim. Metathorax vertical. Petiole a little longer than the metathorax. Abdomen nearly oval, shorter and narrower than the thorax. Hind-femora with one small and five very large teeth; hind-tibiæ with a luteous streak above towards the base; tarsi luteous; fore-tarsi piceous above towards the base. Wings dark cinereous; veins piceous; ulna about half the length of the humerus; radius a little longer than the ulna; cubitus rather short.

Length of the body $4\frac{1}{2}$ lines; of the wings 9 lines.

Female?—Prothorax with a yellow line along each side and on the hind border, where it is widely interrupted. Scutellum with a yellow line along the hind-border. Metathorax oblique. Petiole a little shorter than the metathorax. Abdomen dingy luteous beneath. Hind-coxæ yellow on the inner side towards the tips; hind-femora with a yellow streak, which is largest on the inner side; hind-tibiæ luteous on the inner side towards the base; anterior knees and tarsi yellow; hind-tarsi black.

3. *Smiera efficta*.

Mas.—Nigra; oculi flavo-cincti; antennæ subtus piceæ, scapo subtus flavo; thorax scuti margine antico, parapsidum lituris duabus transversis, scutellique margine postico flavis; abdomen supra luridum; pedes anteriores flavi, ex parte picei; alæ cinereæ.

Male.—Black, stout. Head yellow about the eyes. Antennæ filiform, piceous beneath; scape yellow beneath. Scutum of the mesothorax bordered with yellow in front; a yellow transverse mark on each of the parapsides; scutellum yellow on the hind border, which is armed with two very small teeth. Petiole as long as the metathorax. Abdomen elongate-oval, lurid above, shorter and much narrower than the thorax. Hind-femora armed with seven teeth, of which five are large; anterior legs yellow; anterior femora and middle tibiæ mostly piceous above. Wings cinereous; veins black; ulna half the length of the humerus; radius as long as the ulna; cubitus moderately long.

Length of the body 4 lines; of the wings 7 lines.

4. *Smiera contacta*.

Mas.—Lutea; caput postice nigrum; antennæ nigrae, subtus rufescentes, scapo subtus luteo; prothorax fascia nigra luteo-

bipunctata; mesothorax vittis tribus, guttis duabus vittaque scutelli postice dilatata nigris; pectus nigro-bistrigatum; abdomen supra nigrum; pedes postici coxis apice nigris, femoribus nigro-triguttatis; alæ cinereæ.

Male.—Luteous. Head black behind. Antennæ black, filiform, reddish beneath; scape luteous beneath. Hind-border of the prothorax with a narrow black band, which is slightly arched in front, and contains two luteous points. Mesothorax with three broad black stripes, one on the scutum and one on each of the parapsides; paraptera black towards each other; scutellum armed with two small teeth, adorned with a black stripe, which is dilated and abbreviated hindward. Pectus with a black transverse streak on each side. Petiole a little longer than the metathorax. Abdomen elongate-oval, mostly black above, much shorter and narrower than the thorax. Hind-coxæ with black tips; hind-femora armed with three large teeth, adorned with three black dots, of which one is above, the second below, and the third apical. Wings cinereous; veins black; ulna more than half the length of the humerus; radius as long as the ulna; cubitus short.

Length of the body 3 lines; of the wings 5 lines.

5. *Smiera destinata*.

Fem.—Lutea; caput flavum, sulco antico margineque postico nigris; antennæ nigrae, subtus rufescentes, scapo flavo; thorax scuti margine antico lineaque, parapsidum vittis duabus, parapteris ex parte, scutellique macula nigris; pedes postici coxis tibiisque apice nigris, femoribus nigro-bimaculatis et unistrigatis; alæ cinereæ.

Female.—Luteous. Head yellow, black behind and on the furrow for the reception of the scape. Antennæ black, filiform, reddish beneath and towards the base; scape yellow. Scutum of the mesothorax with a black line, which is connected with a short transverse black line on the fore-border; a black stripe on each of the parapsides; paraptera yellow, black towards each other; scutellum armed with two small teeth, adorned at its tip with a black spot, which emits a line to the fore-border. Petiole a little longer than the metathorax. Abdomen oval, about twice the length of the petiole, very much shorter and narrower than the thorax. Hind-coxæ with black tips; hind-femora armed with four very large teeth, which are mostly black, adorned on each side with two black spots (one apical, the other contiguous to the first tooth), and on the outer side above with a small black streak; hind-tibiæ with black tips. Wings cinereous; veins black; ulna

hardly half the length of the humerus; radius a little longer than the ulna; cubitus very short.

Length of the body $3\frac{1}{2}$ lines; of the wings 6 lines.

6. *Smiera crocata*.

Fœm.—Lutea, subtus flava; caput postice nigrum; antennæ piceæ, subtus fulvæ, scapo subtus flavo; thorax scuti margine antico lineaque, parapsidum maculis duabus elongatis, parapteris ex parte, scutellique macula tetragona nigris; abdomen maculis duabus lateralibus nigris; pedes postici coxis apice nigris, femoribus nigro-bimaculatis; alæ cinereæ.

Female.—Luteous, yellow beneath. Head black behind. Antennæ piceous, filiform, tawny beneath; scape yellow beneath. Scutum of the mesothorax with a black line, which is connected with a short transverse line on the fore-border, and is abbreviated hindward; an elliptical black spot on each of the parapsides; paraptera black towards each other; scutellum armed with two rather large teeth, adorned with a tetragonal black spot, which is attenuated towards the scutum. Petiole much longer than the metathorax. Abdomen elongate-oval, hardly twice the length of the petiole, with a black spot on each side near the tip. Hind-coxæ with black tips; hind-femora armed with four very large teeth, which are mostly black, adorned beneath with two black spots, one before the middle, the other apical. Wings cinereous; veins black; ulna hardly half the length of the humerus; radius as long as the ulna; cubitus very short.

Length of the body 3 lines; of the wings 5 lines.

7. *Smiera appressa*.

Fœm.—Flava; caput sulco margineque postico nigris; antennæ nigræ, scapo flavo apice nigro; prothorax strigis duabus transversis nigris; mesothoracis segmenta nigra, flavo latè marginata; metathorax anticè nigro-marginatus; abdomen nigro-quadrifasciatum; pedes postici femoribus tibiisque basi apiceque nigris; femora intermedia piceo-strigata; alæ cinereæ.

Female.—Yellow. Head black behind and on the furrow for the scape. Antennæ black, filiform; scape yellow, black towards the tip above. Prothorax with a minute transverse black streak on each side. Scutum and parapsides of the mesothorax black, broadly bordered with yellow; paraptera black towards the scutum and along the hind-border; scutellum armed with two very short teeth, adorned with a nearly hexagonal black spot.

Metathorax with a black line along its fore-border. Disk of the pectus black. Petiole stout, much shorter than the metathorax. Abdomen lanceolate, slightly compressed towards its tip, much longer and narrower than the thorax; middle part adorned with four slender black bands. Hind-femora black at the tips and towards the base, whence the black hue extends along half the length of the upper border and along the whole of the lower border, which is armed with five large black teeth; middle femora with a short piceous streak on the outer side; hind-tibiæ black towards the base and towards the tips. Wings cinereous; veins black; ulna about half the length of the humerus; radius as long as the ulna; cubitus very short; spurious veins very distinct.

Length of the body 5 lines; of the wings 9 lines.

8. *Smiera aperta*.

Fœm.—Flava; caput nigro-bipunctatum; antennæ piceæ, subtus rufescentes, scapo subtus flavo; thorax scuti punctis duobus lineaque transversa postica et parapsidum guttis duabus elongatis nigris; abdomen maculis octo lateralibus piceis; pedes postici coxis tibiisque apice nigris, femoribus nigro-uniguttatis; alæ cinereæ.

Female.—Yellow. Head with two black points behind. Antennæ piceous, filiform, reddish beneath; scape yellow beneath. Scutum of the mesothorax with a black point on each side of the fore-border, and with a short transverse black line on the hind-border; an elongated black dot on each of the parapsides; scutellum with two stout teeth. Petiole as long as the metathorax. Abdomen fusiform, with four piceous spots on each side, much shorter and narrower than the thorax. Hind-coxæ with black tips; hind-femora with a black dot on the outer side at the base, armed beneath with seven black teeth, of which five are very large; hind-tibiæ black on the outer side at the tips. Wings cinereous; veins black; ulna fully half the length of the humerus; radius nearly as long as the ulna; cubitus short.

Length of the body $4\frac{1}{2}$ lines; of the wings 8 lines.

9. *Smiera cerina*.

Mas.—Flava; antennæ nigrae subtus rufescentes, scapo subtus flavo; thorax scuti punctis duobus, parapsidum strigis duabus, scutellique striga nigris; abdominis segmenta piceo-fasciata; pedes postici coxis tibiisque apice nigris; alæ cinereæ.

Male.—Yellow. Antennæ black, filiform, reddish beneath; scape yellow beneath. Scutum of the mesothorax with a black

point on each side of the fore-border; a short black streak on each of the parapsides; scutellum with a short black streak, armed with two minute teeth. Petiole fully as long as the metathorax. Abdomen fusiform, with a piceous band on the fore-border of each segment, rather shorter and much narrower than the thorax. Hind-coxæ and hind-tibiæ with black tips; hind-femora armed with six teeth, five of which are large. Wings cinereous; veins black; ulna about half the length of the humerus; radius as long as the ulna; cubitus short.

Length of the body 4 lines; of the wings 8 lines.

Prothorax) 10. *Smiera basilica*.

Fœm.—Flava; caput nigrum, oculis flavo-cinctis; antennæ nigrae, subtus ochraceæ, scapo pallidè flavo; scuti discus, parapsides apud marginem interiorem, paraptera ex parte, scutelli vitta posticè dilatata pectusque nigra; abdomen nigro-sex-fasciatum; femora postica nigro-vittata; tibiæ posticæ rufescentes, apice flavæ; alæ anticæ cinereæ, apud costam subluridæ.

Female.—Yellow. Head black, except about the eyes and towards the mouth. Antennæ black, filiform, rather long and slender, ochraceous beneath; scape pale yellow, ochraceous above towards the tip; second joint ochraceous. Scutum of the mesothorax black, except along each side; parapsides black along the inner side; paraptera partly black; scutellum with a black stripe, which is dilated on the hind-border. Pectus black. Petiole as long as the metathorax. Abdomen lanceolate, a little longer and much narrower than the thorax, adorned with six black bands. Hind-femora black, except above and towards the tips, armed with five large teeth; hind-tibiæ reddish, yellow towards the tips. Wings cinereous, with a lurid tinge towards the costa; veins ochraceous; ulna less than half the length of the humerus; radius as long as the ulna; cubitus moderately long.

Length of the body 5 lines; of the wings 8 lines.

11. *Smiera composita*.

Fœm.—Nigra; oculi flavo-cincti; antennæ scapo subtus flavo; prothorax flavus, strigis duabus transversis nigris; mesothoracis segmenta flavo-marginata; metathorax et petiolus nigri; abdomen basi fasciisque tribus flavis; pedes flavo-varii; alæ cinereæ.

Female.—Black. Head yellow about the eyes. Antennæ filiform; scape yellow beneath. Prothorax yellow above, with a

black transverse streak on each side. Scutum and parapsides of the mesothorax yellow along the outer side; paraptera yellow towards the wings; scutellum yellow, with a black disk, armed with two very minute teeth. Metathorax and petiole yellow, the latter as long as the former. Abdomen lanceolate, much narrower and a little longer than the thorax, yellow at the base and with a yellow band near the tip; first and second segments with yellow hind-borders. Hind-coxæ irregularly yellow above towards the base; hind-femora irregularly yellow above towards the tips, armed with six very large teeth; anterior femora yellow towards their tips, this hue predominating most in the fore-femora; hind-tibiæ with a yellow streak above towards the base; tarsi and anterior tibiæ yellow, the former with black tips. Wings cinereous; veins black; ulna a little more than half the length of the humerus; radius a little longer than the ulna; cubitus very short.

Length of the body 4 lines; of the wings 7 lines.

12. *Smiera admixta.*

Mas.—Lutea; caput posticè nigrum; antennæ nigrae, scapo subtus luteo; prothorax nigro-biguttatus; mesothoracis segmenta nigra, luteo-marginata; abdomen nigricante vittatum; pedes postici coxis apice nigris, femoribus nigro-bimaculatis, tibiis piceo-vittatis; alæ cinerae, apud costam subluridæ.

Male.—Luteous. Head black behind. Antennæ black, filiform; scape luteous beneath. Prothorax with a black dot on each side. Scutum and parapsides of the mesothorax black, with the exception of the borders; paraptera black towards the scutum; scutellum armed with two very short teeth, adorned with a nearly triangular black spot. Petiole as long as the metathorax. Abdomen fusiform, with a short irregular blackish stripe, shorter and much narrower than the thorax. Hind-coxæ black above towards their tips; hind-femora black beneath at their base and at their tips, armed beneath with six large black teeth; hind-tibiæ with a piceous stripe, which is widely interrupted towards the base. Wings cinereous, with a lurid tinge towards the costa; veins black; ulna fully half the length of the humerus; radius as long as the ulna; cubitus very short.

Length of the body $4\frac{1}{2}$ lines; of the wings 8 lines.

13. *Smiera defuncta.*

Fem.—Flava; antennæ nigrae, subtus rufæ, scapo flavo; prothorax linea transversa rufescente-nigro-notata; mesothorax

vittis tribus, parapteris apud angulos interiores, scutellique vitta trigona nigris; petiolus vitta nigra furcata; abdominis segmenta rufescente fasciata; tibiæ posticæ nigro-lineatæ; alæ cinereæ.

Female.—Yellow. Antennæ black, filiform, red beneath; scape yellow. Prothorax with a reddish-black-marked transverse line. Mesothorax with a black stripe on the scutum, and one on each of the parapsides; paraptera black towards the scutum; scutellum with a black triangular stripe resting on the hind border. Petiole linear, slender, much longer than the metathorax, with a black stripe, which is forked hindward. Abdomen fusiform, with a broad reddish band on each segment, narrower and a little longer than the thorax. Hind-femora armed with six large black-tipped teeth; hind-tibiæ with a black line on the outer side beneath. Wings cinereous; veins tawny; ulna hardly half the length of the humerus; radius as long as the ulna; cubitus very short.

Length of the body 5 lines; of the wings 9 lines.

14. *Smiera adaptata*. = *captivæ* *ovellæ*

Æm.—Læte flava; caput posticè nigrum; antennæ piceæ, subtus rufescentes, scapo subtus flavo; mesothorax scuti linea furcata, parapsidum guttis duabus, parapteris ex parte, scutellique vitta lanceolata nigris; pectus strigis quatuor lateralibus nigris; abdomen strigis utrinque quatuor transversis nigris; pedes postici coxis apice nigris, femoribus maculis duabus nigris strigaque picea; alæ cinereæ.

Female.—Bright yellow. Head black behind. Antennæ piceous, filiform, rather short and stout, reddish beneath; scape yellow beneath. Scutum of the mesothorax with a black longitudinal line, which is forked in front; parapsides with an elongated black dot; paraptera and epimera partly black; scutellum armed with two very minute teeth, adorned with a lanceolate black stripe, which is attenuated in front. Pectus with two black transverse streaks on each side. Petiole not longer than the metathorax. Abdomen fusiform, much shorter and very much narrower than the thorax, with four transverse black streaks on each side. Hind-coxæ black towards the tips; hind-femora armed with seven large black-tipped teeth, adorned near the lower edge with two black spots, and on the outer side above with a fusiform piceous streak. Wings cinereous; veins black;

ulna less than half the length of the humerus; radius as long as the ulna; cubitus very short.

Length of the body $3\frac{1}{2}$ lines; of the wings 6 lines.

15. *Smiera correcta*.

Fcem.—Flava; antennæ nigræ, scapo subtus flavo; linea abbreviata maculæque duæ transversæ scuti, maculæ quatuor laterales posteriores trigonæ, maculaque scutelli quadrata nigræ; abdomen apice nigrum; coxæ posticæ apice tibiæque posticæ basi nigræ; femora postica nigro-bimaculata; alæ cineræ.

Female.—Yellow, rather slender. Antennæ black, filiform; scape yellow beneath. Scutum of the mesothorax with a black line, which is abbreviated towards the fore-border, where there is a transverse black dot; a black triangular spot on each of the parapsides, and another on each of the paraptera; scutellum with a black tetragonal spot near the hind-border, which is armed with two minute teeth. Petiole not longer than the metathorax. Abdomen lanceolate, narrower but hardly longer than the thorax; tip black. Hind-coxæ with black tips; hind-femora with two black spots by the lower side, armed with eight rather large black teeth; hind-tibiæ black at the base. Wings cinereous; veins piceous; ulna about half the length of the humerus; radius a little shorter than the ulna; cubitus short.

Length of the body 4 lines; of the wings 7 lines.

16. *Smiera exinaniens*.

Fcem.—Nigra; oculi flavo-cincti; antennæ scapo subtus flavo; prothorax flavo-fasciatus; mesothoracis segmenta flavo-marginata; metathorax flavus, nigro-fasciatus; petiolus flavus, nigro-bivittatus; abdomen basi fasciisque quatuor flavis; pedes flavo-varii; alæ cineræ.

Female.—Black. Head yellow about the eyes. Antennæ filiform; scape yellow beneath. Prothorax with a yellow band. Scutum and parapsides of the mesothorax yellow along the outer side; paraptera yellow towards the wings; scutellum yellow, with a black disk and with two minute teeth. Metathorax yellow, with a black band on the fore-border. Petiole yellow, with a black stripe on each side, much shorter than the metathorax. Abdomen lanceolate, much narrower but not longer than the thorax; yellow towards the base, and with four yellow bands, of which the three first are interrupted and the fourth is abbreviated.

Hind-coxæ irregularly yellow towards the base; hind-femora irregularly yellow towards the base and towards the tips, armed with about twelve teeth, of which nine are large; anterior femora yellow towards their tips; hind-tibiæ yellow above towards their tips; tarsi and anterior tibiæ yellow, the former with black tips. Wings cinereous, veins black; ulna about half the length of the humerus; radius as long as the ulna; cubitus short; spurious veins very distinct.

Length of the body $4\frac{1}{4}$ lines; of the wings 8 lines.

17. *Smiera scissa*.

Mas.—Nigra; caput anticè flavum; antennæ apice rufescentes, scapo subtus flavo; prothorax fascia flava nigro-bistrigata; mesothorax segmentis flavo-marginatis, scutello fascia flava nigro-uniguttata; metathorax posticè luteus; petiolus flavus; abdomen basi flavum; pedes flavi, coxis femoribusque posticis nigris basi flavis, femoribus posticis fascia arcuata flava, tibiis posticis basi nigris; alæ cinereæ.

Male.—Black. Head yellow about the eyes and in front. Antennæ filiform, reddish at the tips; scape yellow beneath. Hind-border of the prothorax with a yellow band, which on each side is much dilated, and contains a black streak. Scutum and parapsides of the mesothorax bordered with yellow on the outer side; scutellum with a deeply angular yellow band, which contains a small black dot on the hind-border, the latter armed with two short teeth. Metathorax luteous towards the petiole. Petiole yellow, longer than the metathorax. Abdomen elongate, oval, yellow towards the base, very much shorter and narrower than the thorax. Hind-coxæ and hind-femora yellow towards the base; hind-femora with a yellow arched subapical band, armed with two small and five very large teeth; hind-tibiæ yellow for fully half the length from the tips; anterior legs and hind-tarsi yellow. Wings cinereous; veins black; ulna less than half the length of the humerus; radius as long as the ulna; cubitus moderately long, clouded with brown.

Length of the body $3\frac{1}{2}$ lines; of the wings 6 lines.

18. *Smiera æmula*.

Fæm.—Lutea; caput posticè nigrum; antennæ nigræ, apice rufescentes, scapo subtus flavo; mesothorax niger, segmentis luteo-marginatis; metathorax anticè fascia angusta nigra;

abdomen fasciis quatuor interruptis nigris; coxæ posticæ nigro-vittatæ; alæ anticæ cinereæ, apud costam subluridæ.

Female.—Luteous. Head black behind. Antennæ black, slender, filiform, reddish at the tips; scape yellow beneath. Mesothorax black; scutum, parapsides, paraptera and scutellum bordered with luteous; scutellum armed with two minute teeth. Metathorax with a narrow black band at the base. Petiole as long as the metathorax. Abdomen lanceolate, narrower but not longer than the thorax, with four interrupted black bands. Hind-coxæ with a black stripe, which is dilated towards the tip; hind-femora armed beneath with six large black teeth. Wings cinereous, with a lurid tinge towards the costa; veins brown; ulna more than half the length of the humerus; radius shorter than the ulna; cubitus short.

Length of the body 5 lines; of the wings 9 lines.

19. *Smiera adsita*.

Fcem.—Flava; caput posticè nigrum; antennæ nigræ, apice rufescentes, scapo subtus flavo; mesothoracis segmenta nigra, flavo latè marginata; metathorax lineola transversa nigra; pedes postici coxis femoribusque apice nigris; alæ cinereæ.

Female.—Yellow. Head black behind. Antennæ black, slender, filiform, reddish at the tips; scape yellow beneath. Scutum and parapsides of the mesothorax black, broadly bordered with yellow; paraptera black, except towards the wings; scutellum armed with two very short teeth, adorned with a nearly triangular black spot. Metathorax with a short black transverse line on the fore-border. Petiole as long as the metathorax. Abdomen lanceolate, narrower but not shorter than the thorax. Hind-coxæ and hind-femora with black tips; hind-femora with seven teeth, which are mostly black, and of moderate size, with the exception of the second, which is small. Wings cinereous; veins tawny; ulna half the length of the humerus; radius a little longer than the ulna; cubitus short.

Length of the body 4 lines; of the wings 7 lines.

20. *Smiera attalica*.

Mas.—Lutea; caput flavum, vittis tribus anticis nigris; antennæ piceæ, subtus apiceque luteæ, scapo flavo; prothorax flavus; scuti discus flavus; parapsides nigro strigatæ; paraptera

nigro-guttata; scutellum linea nigra postice dilatata; abdomen piceo-quadrifasciatum; coxæ tibiæque posticæ apice nigræ; femora postica nigro-varia; alæ anticæ cinereæ, apud costam subluridæ.

Male.—Luteous. Head yellow, with three black stripes in front, one on the furrow for the reception of the scape, and one on each side. Antennæ piceous, filiform, luteous beneath and at the tips; scape yellow. Prothorax yellow. Scutum of the mesothorax yellow, except on each side; parapsides with a broad black streak, which is abbreviated hindward; a black dot on each of the paraptera; scutellum armed with two minute teeth, adorned with a black line, which is dilated hindward. Petiole as long as the metathorax. Abdomen elongate, elliptical, shorter and very much narrower than the thorax, adorned with four or five piceous bands. Hind-coxæ with black tips; hind-femora black towards the base, adorned on the outer side with two abbreviated black lines which proceed from the black part, armed with eight large teeth; hind-tibiæ black towards the tips. Wings cinereous, with a lurid tinge towards the costa; veins ochraceous; ulna less than half the length of the humerus; radius as long as the ulna; cubitus moderately long.

Length of the body 4 lines; of the wings $7\frac{1}{2}$ lines.

This may be the male of *S. basilica* (*ante*, p. 188).

21. *Smiera contermina*.

Fem.—Flava; caput sulco antico margineque postico nigris; antennæ nigræ, scapo subtus flavo; mesothoracis segmenta nigra, flavo-marginata; metathorax nigro-bipunctatus; abdomen nigrum, basi flavum; pedes postici coxis supra nigris, femoribus nigro-vittatis; alæ cinereæ.

Fem.—Yellow. Head black behind and on the furrow for the reception of the scape. Antennæ black, very slightly increasing in thickness to the tips; scape yellow beneath; scutum and parapsides black, with the exception of their borders; paraptera black towards the scutum and along the hind-border; scutellum armed with two short teeth, adorned with a large triangular black spot. Metathorax with a black point on each side. Petiole as long as the metathorax. Abdomen black, fusiform, yellow towards the base, shorter and much narrower than the thorax. Hind-coxæ black above, except towards the base; hind-femora with a black stripe along the five very large black teeth. Wings cine-

reons; veins black; ulna about half the length of the humerus; radius a little longer than the ulna; cubitus short.

Length of the body $4\frac{1}{2}$ lines; of the wings 8 lines.

This species much resembles *S. commoda*, but may be distinguished by the different shape of the abdomen and by the markings on the hind-femora.

(*See figure*) 22. *Smiera commoda*.

Fœm.—Flava; caput posticè nigrum; antennæ nigrae, scapo flavo; mesothoracis segmenta nigra, flavo-marginata; abdomen nigrum, basi flavum; pedes postici coxis femoribusque apice nigris; alæ cineræ.

Female.—Yellow. Head with a black band behind. Antennæ black, slightly increasing in thickness to the tips; scape yellow. Scutum and parapsides of the mesothorax black, bordered with yellow; paraptera black on the inner side; scutellum with a large black spot, armed with two short teeth. Petiole a little longer than the metathorax. Abdomen black, lanceolate, yellow towards the base, shorter and much narrower than the thorax. Hind-coxæ and hind-femora with black tips, the latter armed with five large teeth which are mostly black. Wings cinereous; veins blackish; ulna about half the length of the humerus; radius a little shorter than the ulna; enbitus short.

Length of the body 3 lines; of the wings 6 lines.

23. *Smiera alienata*.

Fœm.—Nigra; caput anticè flavum, oculis flavo-cinctis; antennæ apice truncatæ, scapo flavo; thorax prothoracis margine postico, parapsidum strigis duabus, parapteris ex parte, scutellique margine flavis; petiolus flavus; abdomen supra flavum, nigro-quadrifasciatum; pedes flavo-vittati; alæ obscurè cineræ.

Female.—Black. Head yellow about the eyes and in front. Antennæ subelavate, obliquely truncate at the tips; scape yellow. Hind-border of the prothorax yellow. An oblique yellow streak on each of the parapsides, and a yellow triangular dot on each of the paraptera; scutellum bordered with yellow except on each side in front, armed with two small yellow teeth. Metathorax rugose. Petiole yellow, nearly as long as the metathorax. Abdomen lanceolate, a little shorter and much narrower than the thorax, yellow above, with the exception of four black bands, of which the first is widely interrupted. Hind-coxæ with two yellow

stripes, one above much longer and broader than the other, which is on the outer side; hind-femora with a widely-interrupted longitudinal yellow line on the outer side, and with an oblique yellow band on the inner side, armed with six large teeth; anterior tibiæ striped with yellow; anterior tarsi yellow, with black tips. Wings dark cinereous; veins black; ulna less than half the length of the humerus; radius longer than the ulna; cubitus moderately long; spurious veins very distinct.

Length of the body 5 lines; of the wings 9 lines.

24. *Smiera dimota*.

Mas.—Flava; antennæ nigræ, subtus fulvæ, scapo subtus flavo; mesothorax scuti margine antico lineaque, parapsidum strigis duabus, parapteris ex parte, scutellique gutta nigris; pedes postici coxis nigro-unimaculatis, femoribus apice nigris; alæ cinereæ.

Male.—Yellow. Antennæ black, filiform, pale tawny beneath; scape yellow beneath. Scutum of the mesothorax with a black longitudinal line, which joins a transverse black line on the fore-border; a broad black streak on each of the parapsides; paraptera black on the angle towards the scutum; a small black dot near the tip of the scutellum, which is armed with two very short teeth. Petiole as long as the metathorax. Abdomen slightly lanceolate, much shorter and narrower than the thorax. Hind-coxæ with a large black spot on the outer side; hind-femora with black tips, armed with one large and with about twelve very minute teeth, which are mostly black. Wings cinereous; veins black; ulna about half the length of the humerus; radius fully as long as the ulna; cubitus very short.

Length of the body 3 lines; of the wings 5 lines.

25. *Smiera disposita*.

Mas.—Lutea; antennæ piceæ, subtus rufescentes, scapo subtus luteo; mesothorax scuti linea, parapsidum punctis duobus, parapterisque ex parte nigris; coxæ posticæ piceo-strigatæ; alæ cinereæ.

Male.—Luteous, yellow beneath. Antennæ piceous, filiform, reddish beneath; scape luteous beneath. Scutum of the mesothorax with a black longitudinal line, which is continued on the fore part of the scutellum; a black point on each of the parapsides; paraptera black along the hind-border; scutellum armed with two extremely minute teeth. Pectus with a transverse black

streak on each side. Petiole as long as the metathorax. Abdomen slightly lanceolate, a little shorter and much narrower than the thorax. Hind-coxæ with a short piceous streak on the outer side; hind-femora armed with sixteen or more extremely minute black teeth. Wings cinereous; veins black; ulna a little less than half the length of the humerus; radius a little longer than the ulna; cubitus very short.

Length of the body $2\frac{1}{2}$ lines; of the wings 4 lines.

26. *Smiera expleta*.

Fœm.—Flava; antennæ nigræ, scapo flavo; scutellum piceo-lineatum; abdomen apice nigrum; alæ subcinereæ, venis fulvis.

Female.—Yellow. Antennæ black, long, slender, filiform; scape yellow. Scutellum of the mesothorax with a piceous longitudinal line which does not extend to the tip, the latter armed with two very short teeth. Petiole stout, much shorter than the metathorax. Abdomen lanceolate, black at the tip, narrower and a little longer than the thorax. Hind-femora armed with one large and about twelve very minute teeth, which are mostly black. Wings slightly cinereous; veins tawny; ulna fully half the length of the humerus; radius as long as the ulna; cubitus very short; stigma black.

Length of the body $4\frac{1}{2}$ lines; of the wings 7 lines.

27. *Smiera descripta*.

Fœm.—Lutea; caput flavum, linea postica transversa nigra; antennæ nigræ, scapo subtus luteo; mesothorax vittis duabus, strigis duabus exterioribus, linea transversa, guttaque postica nigris; abdomen apice nigrum; pedes postici coxis supra femoribusque apice nigris; alæ cinereæ.

Female.—Luteous. Head yellow, with a black transverse line behind. Antennæ black, filiform, rather slender; scape luteous beneath. Scutum of the mesothorax with two black stripes, which are abbreviated hindward; a black streak on each of the parapsides; a black line on the hind-border of the scutum, extending to the paraptera; a black dot near the hind-border of the scutellum, which is armed with two very small teeth. Petiole shorter than the metathorax. Abdomen lanceolate, much longer and narrower than the thorax; tip black. Hind-coxæ black above at the tips; hind-femora with black tips, armed with many very minute teeth. Wings cinereous; veins black; ulna a little

more than half the length of the humerus; radius as long as the ulna; cubitus short.

Length of the body $4\frac{1}{2}$ lines; of the wings 7 lines.

28. *Smiera exhaustiens*.

Fœm.—Flava; caput posticè nigrum; antennæ nigræ, scapo subtus flavo; mesothorax scuti vittis duabus, parapsidum strigis duabus, parapteris ex parte, scutellique gutta nigris; abdomen apice nigrum; pedes postici coxis femoribusque apice nigris, tibiis basi apiceque nigris; alæ subcinereæ.

Female.—Yellow. Head behind with a short transverse black line. Antennæ black, filiform; scape yellow beneath. Scutum of the mesothorax with two black stripes which converge backward; an elliptical black streak on each of the parapsides; paraptera black by the scutum; scutellum with a black dot near its tip, which is very slightly bidentate. Petiole stout, much shorter than the metathorax. Abdomen lanceolate, black at the tip, longer and much narrower than the thorax. Hind-coxæ and hind-femora with a black apical spot on the upper side; hind-femora armed with one large tooth near the base, and with about sixteen very minute black teeth; hind-tibiæ black at the base and at the tips. Wings slightly cinereous; veins black; ulna much less than half the length of the humerus; radius longer than the ulna; cubitus very short.

Length of the body $4\frac{1}{2}$ lines; of the wings 7 lines.

29. *Smiera adjuncta*.

Mas.—Nigra; caput flavum, sulco antico margineque postico nigris; prothorax flavus, nigro-bistrigatus; mesothoracis segmenta flavo-marginata; abdomen luteum, nigro-bifasciatum; pedes flavi, nigro-varii; alæ cinereæ.

Male.—Black. Head yellow, black behind and on the furrow for the scape. Antennæ filiform. Prothorax yellow, with a little transverse black streak on each side. Scutum and parapsides of the mesothorax yellow along the outer side; paraptera yellow towards the wings; scutellum yellow, with a black disk and with two very short teeth. Metathorax yellow, black along the foreborder. Petiole yellow, shorter than the metathorax. Abdomen luteous, much shorter and narrower than the thorax, with two black bands which are connected in the middle and on each side and occupy the 2nd and 3rd segments. Legs yellow; hind-coxæ with black tips; hind-femora with three black spots on each side

(the 1st and 2nd spots connected at the base, the 3rd apical), and with about sixteen very minute black teeth; hind-tibiæ black, with a broad yellow band near the base; middle femora and fore-tibiæ with a piceous streak. Wings cinereous; veins black; ulna fully half the length of the humerus; radius as long as the ulna; cubitus short.

Length of the body 4 lines; of the wings 7 lines.

This species has a close resemblance to *S. blanda*.

30. *Smiera blanda*.

Nigra; caput anticè flavum, oculis flavo-cinctis; antennæ scapo subtus flavo; prothorax flavus, nigro-bistrigatus; mesothoracis segmenta flavo-marginata; metathorax flavus, nigro-bifasciatus; petiolus flavus; abdomen basi fasciisque flavis; pedes flavi, nigro-varii; alæ cinereæ.

Male—Female.—Black. Head yellow about the eyes and in front. Antennæ filiform; scape yellow beneath. Prothorax yellow, with a transverse black streak on each side. Scutum and parapsides of the mesothorax yellow along the outer side, the former with a small yellow dot in the middle; paraptera with a yellow spot towards the wings; scutellum yellow with a black disk and with two minute teeth. Metathorax yellow, black along the fore-border and in the middle. Petiole yellow, as long as the metathorax. Abdomen elongate-oval, much shorter and narrower than the thorax, yellow towards the base, and with a yellow band on the hind-border of each segment. Legs yellow; hind-coxæ with black tips, and with an elongate black spot on the outer side; hind-femora with a black spot on the outer side above and with two black spots on each side by the lower edge, which is armed with one large and with about nine minute black teeth; hind-tibiæ black towards the base. Wings cinereous; veins black; ulna less than half the length of the humerus; radius longer than the ulna; cubitus short.

Length of the body 4 lines; of the wings 7 lines.

31. *Smiera vacillans*.

Fœm.—Nigra; caput anticè flavum; antennæ robustæ, scapo subtus flavo; prothorax et mesothoracis segmenta flavo-marginata; petiolus flavus, brevissimus; abdomen dimidio antico flavo; pedes femoribus posticis flavo-trimaculatis, tibiis tarsisque anterioribus tarsisque posticis flavis; alæ cinereæ.

Female.—Black. Head yellow about the eyes and in front.

Antennæ stout, filiform; scape yellow beneath. Hind-border of the prothorax with a yellow band, which is dilated on each side. Scutum and parapsides of the mesothorax bordered with yellow on the outer side; scutellum with a deeply angular yellow band on its hind-border, which is armed with two short teeth. Petiole yellow, very short. Abdomen slightly lanceolate, yellow for nearly half the length from the base, much narrower but not longer than the thorax. Hind-femora with a large yellow spot above on both sides, and with two small yellow spots on the outer side by the lower border, which is armed with several very minute teeth; anterior knees, tibiæ and tarsi, and hind-tarsi yellow. Wings cinereous; veins black; ulna less than half the length of the humerus; radius longer than the ulna; cubitus moderately long.

Length of the body 4 lines; of the wings 7 lines.

32. *Smiera terminalis*.

Mas.—Lutea; antennæ piceæ, filiformes, subtus rufescentes, scapo luteo; mesothorax nigro-quadrifasciatus; abdomen supra nigrum; pedes coxis posticis supra, femoribus posticis apice, tibiisque posticis basi apiceque nigris; alæ anticæ cinereæ, apice nigricantes.

Male.—Luteous. Antennæ piceous, filiform, reddish beneath; scape luteous. Mesothorax with an elongated black spot on the scutum, and with a black callus at the base of each fore-wing; scutellum armed with two very small teeth, adorned with a black disk. Petiole slender, longer than the metathorax. Abdomen elliptical, shorter and narrower than the thorax, black above, except towards the base; hind-coxæ black above, except towards the base; hind-femora with black tips, moderately incrassated, armed with about sixteen very minute teeth; hind-tibiæ black at the base and towards the tips. Wings cinereous. Fore-wings with blackish tips; veins black; ulna about half the length of the humerus; radius longer than the ulna; cubitus very short.

Length of the body 3 lines; of the wings 5 lines.

33. *Smiera æqualis*.

Mas.—Flava; caput posticè nigrum; antennæ nigræ, scapo flavo; mesothorax vittis tribus latis, parapteris ex maxima parte, scutellique macula tetragona nigris; abdomen strigis lateralibus transversis nigris; pedes postici coxis nigro-unifasciatis, femoribus nigro-trifasciatis; alæ cinereæ.

Male.—Yellow. Head black behind. Antennæ black, filiform;

scape yellow. Mesothorax with three broad black stripes, one on the scutum and one on each of the parapsides; paraptera mostly black; scutellum with a tetragonal black spot, which is attenuated in front. Petiole linear, much longer than the metathorax, and more than half the length of the abdomen. Abdomen elliptical, much shorter and narrower than the thorax, with some transverse black streaks on each side. Hind-coxæ with a black spot on the outer side; hind-femora with three black spots on each side, armed beneath with several minute teeth. Wings cinereous; veins black; ulna a little more than half the length of the humerus; radius as long as the ulna; cubitus very short.

Length of the body $2\frac{1}{2}$ lines; of the wings 4 lines.

34. *Smicra contributa*.

Mas.—Flava; caput macula antea nigra; antennæ nigrae, subtus rufescentes, scapo flavo; prothorax fascia abbreviata nigra; mesothorax niger, vittis duabus maculisque duabus exterioribus flavis, scutello flavo, macula postica nigra; pedes postici coxis femoribusque nigro-vittatis, tibiis posticis basi apiceque nigris; alæ cineræ.

Male.—Yellow. Head paler in front, with a black spot between the base of the antennæ and the mouth. Antennæ black, filiform, reddish beneath, shorter than the thorax; scape yellow. Prothorax with a black abbreviated band in front. Mesothorax black; scutum with two yellow stripes, which converge hindward; parapsides yellow towards the fore-wings; scutellum yellow, with a black spot hindward, armed with two very minute teeth. Petiole a little shorter than the metathorax. Abdomen fusiform, black above, except towards the base, much shorter and narrower than the thorax. Hind-coxæ with a broad black stripe on each side; hind-femora with a black stripe on each side, that on the inner side interrupted; teeth numerous, very minute; hind-tibiæ black at the base and towards the tips. Wings cinereous; veins black; ulna hardly half the length of the humerus, which is yellow; radius fully as long as the ulna; cubitus very short.

Length of the body 3 lines; of the wings 5 lines.

35. *Smicra celsa*.

Fœm.—Lætè flava; antennæ nigrae, scapo subtus flavo; mesothorax scuti macula trigona, strigis duabus parapsidum, parapteris apud margines, scutellique vitta interrupta nigris; metathorax fascia angulata nigra; pectus nigrum; abdomen

fasciis quinque apiceque nigris; pedes nigro-varii; alæ cinereæ.

Female.—Bright yellow. Antennæ black, filiform, not longer than the thorax; scape yellow beneath. Mesothorax with a black triangular mark on the scutum, and with a black streak on each of the parapsides; paraptera bordered with black; scutellum with an interrupted black stripe. Metathorax with an angular black band. Mesopectus and metapectus black. Petiole not longer than the metathorax. Abdomen lanceolate, pubescent towards the tip, longer and narrower than the thorax, with five black bands, which are æneous on each side, tip black. Legs pubescent; hind-coxæ with a black spot on the outer side and with black tips; hind-trochanters black; hind-femora with many minute teeth, and with one large tooth near the base, black at the base and at the tip, with a black transverse spot on the middle of the outer side; hind-tibiæ black at the base. Wings cinereous; veins black; ulna about half the length of the humerus; radius as long as the ulna; cubitus very short.

Length of the body $3\frac{1}{2}$ lines; of the wings 6 lines.

36. *Smiera detracta*.

Mas.—Flava; antennæ nigræ, subtus rufescentes, scapo subtus flavo; abdomen luteum, fasciis quinque obscurioribus; pedes postici lutei; alæ limpidæ.

Male.—Yellow. Abdomen and hind-legs luteous. Antennæ black, filiform, reddish beneath; scape yellow beneath. Scutellum of the mesothorax armed with two extremely small teeth. Petiole nearly as long as the metathorax. Abdomen slightly lanceolate, much shorter and narrower than the thorax, adorned with five darker bands on the fore-borders of the segments. Hind-femora armed with one large and twelve very minute teeth, which are mostly black. Wings limpid; veins piceous; ulna about half the length of the humerus; radius a little longer than the ulna; cubitus very short.

Length of the body $2\frac{3}{4}$ lines; of the wings $4\frac{1}{2}$ lines.

37. *Smiera annulifera*.

Fæm.—Nigra; caput anticè flavum; antennæ apice subtusque rufæ, scapo subtus flavo; prothorax fascia flava nigro-biguttata; mesothorax segmentis flavo-marginatis, scutello

flavo, fasciis duabus vittaque nigris; petiolus brevissimus; pedes flavi, femoribus posticis nigris flavo-fasciatis, tibiis posticis nigris; alæ cineræ, striga costali apicibusque fuscis.

Female.—Black. Head yellow about the eyes and in front. Antennæ filiform, red at the tips and beneath; scape yellow beneath. Hind border of the prothorax with a yellow band, which on each side is dilated and forked, and contains a black dot. Scutum and parapsides of the mesothorax bordered with yellow on the outer side; a large black spot on each of the yellow paraptera; scutellum yellow, armed with two short teeth, adorned with two black bands, which are connected by a black stripe; first band semicircular, much broader than the second. Petiole very short. Abdomen lanceolate, much narrower but very little longer than the thorax. Hind-femora adorned with a curved transverse yellow line on each side near the tips, armed with about twelve very minute teeth; hind-tarsi and anterior legs yellow. Wings cinereous, brown along the ulna and towards the tips; veins black, ulna less than half the length of the humerus; radius much longer than the ulna; cubitus moderately long.

Length of the body $3\frac{1}{2}$ lines; of the wings 6 lines.

38. *Smiera depicta*.

Fem.—Flava; caput posticè nigrum; antennæ nigræ, apice rufescentes, scapo subtus luteo; mesothoracis segmenta nigra, flavo latè marginata; abdomen luteum; pedes postici coxis femoribusque apice nigris; alæ cineræ.

Female.—Luteous. Head and thorax yellow. Head black behind. Antennæ black, slender, filiform, dark reddish at the tips; scape luteous beneath; scutum and parapsides of the mesothorax black, broadly bordered with yellow; paraptera black towards the scutum; scutellum armed with two very short teeth, adorned with a large black spot, which is acutely angular towards the scutum. Petiole stout, much shorter than the metathorax. Abdomen lanceolate, narrower and a little longer than the thorax; sheaths of the oviduct with black tips. Hind-coxæ and hind-femora with black tips; hind-femora armed with one large and with about twelve very minute teeth, which are mostly black. Wings cinereous; veins piceous; ulna about half the length of the humerus; radius longer than the ulna; cubitus short.

Length of the body $4\frac{1}{2}$ lines; of the wings 8 lines.

39. *Smiera annexa*.

Fæm.—Flava; caput posticè nigrum; antennæ nigræ, apice subtusque rufescentes, scapo flavo; prothorax nigro-bipunctatus; mesothoracis segmenta nigra, flavo-marginata; abdomen piceum, basi flavescens; pedes postici coxis apice tibiisque basi nigris, femoribus nigro-bimaculatis; alæ anticæ cinereæ, apud costam subluridæ.

Female.—Yellow. Head black behind and about the ocelli. Antennæ reddish, black above, except towards the tips; scape yellow. Prothorax with an elongated black point on each side by the hind-angle. Scutum and parapsides of the mesothorax black, broadly bordered with yellow; paraptera black towards the scutum; scutellum armed with two short teeth, adorned with a black spot, which forms a short transverse ellipse. Petiole piceous towards the tip, as long as the metathorax. Abdomen piceous, elongate-oval, yellowish towards the base, much shorter and narrower than the thorax. Hind-coxæ with black tips; hind-femora with twelve minute teeth, with two black spots beneath, the first extending from the first to the fifth tooth, the second apical; hind-tibiæ black towards the base. Wings cinereous, with a lurid tinge towards the costa; veins black; ulna hardly half the length of the humerus; radius longer than the ulna; cubitus rather short.

Length of the body 4 lines; of the wings 8 lines.

40. *Smiera cognata*.

Fæm.—Lutea; caput anticè flavum, posticè nigrum; antennæ piceæ, subtus apiceque rufæ, scapo flavo; thorax punctis duobus anticis, scuti vitta cyathiformi, parapsidum vittis duabus, parapteris ex parte, scutellique macula nigris; abdomen plaga postica nigricante; pedes postici coxis apice tibiisque basi nigris, femoribus nigro-bimaculatis; alæ cinereæ.

Female.—Luteous. Head yellow in front, black behind and between the ocelli. Antennæ piceous, filiform, red beneath and towards the tips; scape yellow. Prothorax with a black point on each side. Scutum of the mesothorax with a cyathiform black stripe; a black stripe on each of the parapsides; paraptera yellow, black where they approach each other; scutellum with a large black spot on the disk, armed with two very short teeth. Petiole as long as the metathorax. Abdomen elongate-oval, very much shorter and narrower than the thorax, with a blackish patch

on the hind part above. Hind-coxæ with black tips; hind-femora armed with eleven small teeth, adorned on each side with an apical black spot, and on the outer side with a black spot near the base; hind-tibiæ black towards the base. Wings cinereous; veins black; ulna a little less than half the length of the humerus; radius a little longer than the ulna; cubitus short.

Length of the body 4 lines; of the wings 8 lines.

41. *Smiera demota*.

Fcem.—Flava; caput posticè nigrum; antennæ ochraceæ, basi supra piceæ; prothorax fascia antica punctisque duobus posticis nigris; scuti discus, parapsidum vittæ duæ latæ, paraptera ex parte, scutellique macula conica nigra; abdomen rufescens nigro-quadrifasciatum, apice flavum; pedes postici piceo-strigati; alæ anticæ cinereæ, apud costam subluridæ.

Female.—Yellow. Head black behind. Antennæ filiform, ochraceous, piceous towards the base above. Prothorax with a black band in front, and with a black point on each side hindward. Scutum of the mesothorax black, except along the outer side; a broad black stripe on each of the parapsides; paraptera partly black; scutellum with a conical black spot. Petiole a little longer than the metathorax. Abdomen fusiform, a little longer and very much narrower than the thorax, reddish except towards the tip, with four black bands, of which the 1st and the 4th are interrupted. Hind-coxæ with a piceous streak on the outer side; hind-femora with a piceous streak on the inner side, armed with several minute teeth. Wings cinereous. Fore-wings with a lurid tinge towards the costa; veins piceous; ulna about half the length of the humerus; radius as long as the ulna; cubitus moderately long.

Length of the body 4 lines; of the wings 7 lines.

42. *Smiera apparata*.

Fcem.—Lutea; caput anticè flavescens, linea postica transversa nigra; antennæ nigre, basi rufescentes, scapo flavo; prothorax linea transversa interrupta nigra; mesothorax segmentis nigris luteo-marginatis, scutello luteo macula tetragona nigra; abdomen nigrum, basi luteum; pedes coxis posticis apice nigris, tibiis posticis linea abbreviata nigricante; alæ cinereæ, apud costam subluridæ.

Female.—Luteous. Head pale yellowish in front, with a black transverse line behind the vertex. Antennæ black, reddish

towards the base, slightly increasing in thickness towards the tips; scape yellow. Prothorax with a black transverse interrupted line. Mesothorax with the scutum and the parapsides black, bordered with luteous; parapièra black except on the outer side; scutellum with a black tetragonal spot, armed with two small teeth. Petiole linear, fully as long as the metathorax. Abdomen lanceolate, black, luteous towards the base, narrower but not longer than the thorax. Hind-coxæ black towards the tips; hind-femora armed with several minute black teeth; hind-tibiæ with a blackish abbreviated line on the upperside. Wings cinereous, with a lurid tinge towards the costa; veins tawny; ulna rather more than half the length of the humerus; radius a little longer than the ulna; cubitus rather short.

Length of the body 5 lines; of the wings 9 lines.

43. *Smiera deducta*.

Fæm.—Flava; caput gutta antica fasciæque postica nigris; antennæ nigrae, scapo subtus flavo; mesothorax scuti disco, parapsidum vittis duabus, parapteris, scutellique macula conica nigris; pectoris discus niger; abdomen fasciis tribus connexis apiceque nigris; pedes postici coxis, femorum maculis duabus, tibiisque basi nigris; alæ cinereæ.

Female.—Yellow. Head black behind, and with a black dot between the base of the antennæ and the mouth. Antennæ black, slightly increasing in thickness to the tips; scape yellow beneath. Scutum of the mesothorax black, except along each side; parapsides black along the inner side; paraptera black; scutellum with a black conical spot which rests on the hind-border. Metathorax with a black transverse line at the base. Disk of the pectus black. Petiole not longer than the metathorax. Abdomen lanceolate, much longer and narrower than the thorax, with three black connected dorsal bands, the 3rd band connected with the apical black part, which comprises about two-fifths of the whole length. Hind-coxæ black; hind-femora armed with several very minute teeth, adorned with two black spots, which are connected below on the outer side; hind-tibiæ black at the base. Wings cinereous; veins black; ulna a little more than half the length of the humerus; radius as long as the ulna; cubitus very short.

Length of the body 2 lines; of the wings 3 lines.

44. *Smicra attacta*.

Fæm.—Flava; caput posticè nigrum; antennæ nigrae, subtus rufescentes, scapo flavo; prothorax gutta antica nigra; meso-

thorax guttis duabus vittaque, strigis duabus guttisque duabus posterioribus, vittaque scutelli nigris; pedes postici coxis nigro-guttatis, femoribus apice nigris; alæ limpidæ.

Female.—Yellow. Head black behind. Antennæ black, reddish beneath, slightly increasing in thickness to the tips; scape yellow. Prothorax with a black dot in front. Scutum of the mesothorax with a black dot on each side in front and with a black stripe; a black streak on each of the parapsides and a black dot on each of the paraptera; scutellum with an abbreviated black stripe. Metathorax with a black stripe. Petiole as long as the metathorax. Abdomen lanceolate, pale reddish, much narrower but hardly longer than the thorax; hind-borders of the segments paler. Hind-coxæ with a black spot on the outer side; hind-femora with black tips, armed with many very minute teeth. Wings limpid; veins black; ulna little more than one-third of the length of the humerus; radius a little longer than the ulna; cubitus very short.

Length of the body 3 lines; of the wings 4 lines.

Genus CHALCIS.

Chalcis eurytomoides.

Fem.—Nigra; antennæ robustæ, scapo flavo; thorax callis duobus flavis, scutello inermi; abdomen subsessile, sublanceolatum; pedes flavi, coxis posticis supra nigris, femoribus posticis nigro-fasciatis, femoribus anterioribus basi nigris, tibiis anterioribus nigro-strigatis; alæ cinereæ.

Female.—Black. Antennæ stout, filiform; scape yellow. Thorax with a yellow callus at the base of each fore-wing; scutellum unarmed. Abdomen subsessile, slightly lanceolate, longer and a little narrower than the thorax. Legs yellow; hind-coxæ black above; hind-femora armed with about six very minute teeth, adorned with a broad black band which extends above to the base and on the lower side to the tip; anterior femora black towards the base on the outer side; anterior tibiæ with a black streak on the outer side. Wings cinereous; veins black; ulna more than half the length of the humerus; radius less than one-third of the length of the ulna; cubitus very short.

Length of the body $4\frac{1}{2}$ lines; of the wings 7 lines.

Note.—I am indebted to Mr. Dunning for observing that I have applied the name *Sosytra* to two genera of insects. See Trans. Ent. Soc., Third Series, Vol. I. pp. 84, 370. The name *Eudoxinna* may be substituted for *Sosytra*.